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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,099	09/28/2005	Atsushi Tanno	OGW-0391	1690
7590 Patrick G. Burns Greer, Burns & Crain, Ltd. Suite 2500 300 South Wacker Drive Chicago, IL 60606			EXAMINER FISCHER, JUSTIN R	
			ART UNIT 1791	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/551,099

Applicant(s)

TANNO, ATSUSHI

Examiner

Justin R. Fischer

Art Unit

1791

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 August 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/CD)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. Claims 1, 2, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mama (JP 11-34610, of record) and further in view of Kojima (JP 58167203, of record).

Mama is directed to a pneumatic tire construction comprising at least two belt plies 5a,5b and a belt cover ply 6 formed of circumferentially-oriented cords (Figure 3). The reference further teaches that the axial outer ends of said belt cover ply are spaced from the respective axial outer ends of the outermost belt ply 5b by an amount "b" between 15 and 40 mm (Abstract). Based on this disclosure, one of ordinary skill in the art at the time of the invention would have expected the separation between the ends of layer 5a and the belt cover ply to be at least 10 mm (belt ends are extremely close to one another).

In regards to radial separation of the respective axial ends, the reference generally depicts the axial ends of the belt cover ply and the belt plies as being relatively close to one another. It is further noted that the claimed quantitative relationship is a function of the tire section height, which varies between types of tires (heavy-load tires and agricultural tires have larger section heights)- this suggests that the claimed quantitative relationship is even more likely to be satisfied in the tire of Mama (especially the case since the separation is defined as an absolute dimension).

Lastly, with respect to the independent claim, Mama is completely silent with respect to the coating rubber of the belt cover ply. Kojima, on the other hand, suggests the use of a coating rubber for belt plies having a loss factor or tangent delta greater than 0 and less than 0.10 in order to eliminate the occurrence of fatigue and deterioration commonly experienced during running (Abstract). In this instance, a fair reading of Kojima suggests that the coating rubber is broadly applicable for all belt plies since the disclosed benefits are equally applicable to the general class of belt plies (working plies and protective plies). Thus, one of ordinary skill in the art at the time of the invention would have found it obvious to use a coating rubber having a loss factor less than 0.1 in the belt cover ply of Mama.

Regarding claims 2 and 10, the claim language is directed to the method in which the belt cover ply is formed and thus does not further define the structure of the claimed tire. Furthermore, it is well recognized that belt cover plies are commonly formed by partially overlapping adjacent coils (consistent with the conventional structure of belt cover plies).

As to claim 17, Mama is broadly directed to tires for pneumatic vehicles and such would include passenger car tires.

4. Claims 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mama and Kojima as applied in claim 1 above, respectively, and further in view of Mochida (JP 02074403, of record) and Yamamoto (JP 06092108, of record).

As detailed above, Mama in view of Kojima substantially teach the claimed tire construction, including an outermost belt cover ply that extends beyond underlying belt

plies. While Mama fails to include a belt edge cushion rubber layer, it is extremely well known to include such a cushion layer in order to eliminate the buildup of stresses in the shoulder region, as shown for example by Mochida (reference character 21- Page 4, 2nd Column) and Yamamoto (Abstract and Figures). It is particularly noted that Mochida and Yamamoto (Figure 1) are directed to an extremely similar tire construction in which an outermost belt cover ply extends beyond underlying belt plies. Absent any conclusive showing of unexpected results, one of ordinary skill in the art at the time of the invention would have found it obvious to include a conventional belt edge cushion rubber layer in the tire of Mama.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mama, Kojima, Mochida, and Yamamoto as applied in claim 3 above and further in view of Motomura (US 5,215,612, of record).

While Mochida provides motivation to include a belt edge cushion rubber in the tire of Mama, the reference is completely silent with respect to the loss factor or tangent delta of the cushion rubber. Motomura, on the other hand, recognizes the known use of rubber compositions having a tan delta between 0.07 and 0.15 for similar belt edge cushion rubber layers (Column 3, Lines 45-55)- such a rubber is recognized as providing suitable reinforcement without generating/accumulating heat. One of ordinary skill in the art at the time of the invention would have found it obvious to use a rubber having a tangent delta below 0.15 to form the cushion rubber of Mama in view of Kojima and Mochida for the reasons detailed above. Lastly, while the tangent delta is recorded at room temperature, those compositions having a tangent delta at the lower end of the

range would not be expected to more than double with an increase of 40 degrees Celsius and applicant has not provided a conclusive showing of unexpected results to establish a criticality for the claimed range.

6. Claims 9, 10, and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mama and further in view of Yamaguchi (JP 6-344721, newly cited) and Kojima.

As detailed above, Mama substantially teaches the claimed tire construction, including a belt cover ply that extends at least 15 mm beyond the ends of the underlying belt structure. In this instance, the belt design of Mama contributes to, among other things, improved high speed endurance.

Yamaguchi is directed to a similar tire construction having an outermost belt cover ply that extends beyond the ends of an underlying belt structure and is formed of zero degree reinforcement cords. The reference further suggests the use of cords having different properties in the central region, as compared to each side region, in order to enhance high speed durability. One of ordinary skill in the art at the time of the invention would have found it obvious to adopt such an assembly in the tire of Mama since it is consistent with the advantages desired by Mama. Yamaguchi further teaches that such a belt cover ply can be formed by including a central belt cover ply (analogous to claimed main belt cover section) and a pair of side belt cover plies (analogous to separate belt cover extensions) (Paragraph 12). In this instance, the radially inner ends of the belt extension sections are radially inward of belt ply ends. Additionally, the side belt cover plies include "axially inner portions" that are arranged in region radially inward

of the outermost belt ply (different than requiring the axially inner end of respective belt cover plies be arranged radially inward of at least one belt ply). It is emphasized that any portion of the belt cover ply that lays radially inward of the outermost belt ply and axially inward of the axially outer end of the belt cover ply can be viewed as "axially inner portions".

Lastly, with respect to claim 9, Mama is completely silent with respect to the coating rubber of the belt cover ply. Kojima, on the other hand, suggests the use of a coating rubber for belt plies having a loss factor or tangent delta greater than 0 and less than 0.10 in order to eliminate the occurrence of fatigue and deterioration commonly experienced during running (Abstract). In this instance, a fair reading of Kojima suggests that the coating rubber is broadly applicable for all belt plies since the disclosed benefits are equally applicable to the general class of belt plies (working plies and protective plies). Thus, one of ordinary skill in the art at the time of the invention would have found it obvious to use a coating rubber having a loss factor less than 0.1 in the belt cover ply of Mama.

Regarding claim 10, the claim language is directed to the method in which the belt cover ply is formed and thus does not further define the structure of the claimed tire. Furthermore, it is well recognized that belt cover plies are commonly formed by partially overlapping adjacent coils (consistent with the conventional structure of belt cover plies).

With specific respect to claims 19 and 20, at a minimum, the radially inner edges of the belt extension sections are positioned radially inwardly of the respective belt plies

and the claims as currently drafted do not require the entire section having the claimed arrangement.

7. Claims 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mama, Yamaguchi, and Kojima as applied in claim 9 above, respectively, and further in view of Mochida and Yamamoto.

As detailed above, Mama, in view of Yamaguchi and Kojima, substantially teaches the claimed tire construction, including an outermost belt cover ply that extends beyond underlying belt plies. While Mama fails to include a belt edge cushion rubber layer, it is extremely well known to include such a cushion layer in order to eliminate the buildup of stresses in the shoulder region, as shown for example by Mochida (reference character 21- Page 4, 2nd Column) and Yamamoto (Abstract and Figures). It is particularly noted that Mochida and Yamamoto (Figure 1) are directed to an extremely similar tire construction in which an outermost belt cover ply extends beyond underlying belt plies. Absent any conclusive showing of unexpected results, one of ordinary skill in the art at the time of the invention would have found it obvious to include a conventional belt edge cushion rubber layer in the tire of Mama.

8. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mama, Kojima, Mochida, and Yamamoto as applied in claim 11 above and further in view of Motomura.

While Mochida provides motivation to include a belt edge cushion rubber in the tire of Mama, the reference is completely silent with respect to the loss factor or tangent delta of the cushion rubber. Motomura, on the other hand, recognizes the known use of

rubber compositions having a tan delta between 0.07 and 0.15 for similar belt edge cushion rubber layers (Column 3, Lines 45-55)- such a rubber is recognized as providing suitable reinforcement without generating/accumulating heat. One of ordinary skill in the art at the time of the invention would have found it obvious to use a rubber having a tangent delta below 0.15 to form the cushion rubber of Mama in view of Kojima and Mochida for the reasons detailed above. Lastly, while the tangent delta is recorded at room temperature, those compositions having a tangent delta at the lower end of the range would not be expected to more than double with an increase of 40 degrees Celsius and applicant has not provided a conclusive showing of unexpected results to establish a criticality for the claimed range.

9. Claims 1, 2, 9, 10, and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi and further in view of Kojima.

As best depicted in Figure 1, Yamaguchi teaches a pneumatic tire construction including a pair of belt plies 4 and an outermost belt cover ply 5. The reference further depicts the axially outer ends of said cover ply as being slightly inward (in the radial direction) of the ends of innermost belt ply 4- such a disclosure appears to satisfy the claimed invention in which the radial separation is less than 0.015 times the tire section height. It is emphasized that the respective ends are depicted as being extremely close to one another (in the radial direction) and one of ordinary skill in the art at the time of the invention would have recognized such a disclosure as including embodiments that satisfy the range of the claimed invention.

Regarding the axial separation, Figure 1 clearly depicts such a separation between the respective ends. Given the general disclosure of Yamaguchi, one of ordinary skill in the art at the time of the invention would have found it obvious to use a wide variety of arrangements, including those detailed by the claimed invention. It is further noted that (a) the claims are directed to absolute dimensions and it is well recognized that tire dimensions are highly dependent on tire sizes (larger tires generally have larger dimensions) and (b) the claims define an extremely broad range of separation values. Absent any conclusive showing of unexpected results, one of ordinary skill in the art at the time of the invention would have found it obvious to separate the respective ends by at least 10 mm.

Lastly, with respect to independent claim 1, Yamaguchi is completely silent with respect to the coating rubber of the belt cover ply. Kojima, on the other hand, suggests the use of a coating rubber for belt plies having a loss factor or tangent delta greater than 0 and less than 0.10 in order to eliminate the occurrence of fatigue and deterioration commonly experienced during running (Abstract). In this instance, a fair reading of Kojima suggests that the coating rubber is broadly applicable for all belt plies, including belt cover plies, since the disclosed benefits are equally applicable to the general class of belt plies (working plies and protective plies). Thus, one of ordinary skill in the art at the time of the invention would have found it obvious to use a coating rubber having a loss factor less than 0.1 in the belt cover ply of Yamaguchi.

Regarding claims 2 and 10, the claim language is directed to the method in which the belt cover ply is formed and thus does not further define the structure of the claimed

tire. Furthermore, it is well recognized that belt cover plies are commonly formed by partially overlapping adjacent coils (consistent with the conventional structure of belt cover plies).

With respect to claims 9, 19, and 20, the belt cover ply of Yamaguchi is defined by a main belt cover section having a width W_c and a pair of belt cover extension sections, each having a width W_s . In this instance, a significant length of said extension sections are disposed radially inward of said main belt cover section. Additionally, the side belt cover plies include "axially inner portions" that are arranged in region radially inward of the outermost belt ply (different than requiring the axially inner end of respective belt cover plies be arranged radially inward of at least one belt ply). It is emphasized that any portion of the belt cover ply that lays radially inward of the outermost belt ply and axially inward of the axially outer end of the belt cover ply can be viewed as "axially inner portions". With specific respect to claims 19 and 20, at a minimum, the radially inner edges of the belt extension sections are positioned radially inwardly of the respective belt plies and the claims as currently drafted do not require the entire section having the claimed arrangement.

As to claims 17 and 18, Yamaguchi is broadly directed to tires for pneumatic vehicles and such would include passenger car tires.

10. Claims 3, 5, 11, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi and Kojima as applied in claim 1 above and further in view of Mochida and Yamamoto.

As detailed above, Yamaguchi in view of Kojima substantially teach the claimed tire construction, including an outermost belt cover ply that extends beyond underlying belt plies. While Mama fails to include a belt edge cushion rubber layer, it is extremely well known to include such a cushion layer in order to eliminate the buildup of stresses in the shoulder region, as shown for example by Mochida (reference character 21- Page 4, 2nd Column) and Yamamoto (Abstract and Figures). It is particularly noted that Mochida and Yamamoto (Figure 1) are directed to an extremely similar tire construction in which an outermost belt cover ply extends beyond underlying belt plies. Absent any conclusive showing of unexpected results, one of ordinary skill in the art at the time of the invention would have found it obvious to include a conventional belt edge cushion rubber layer in the tire of Mama.

11. Claims 4 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi, Kojima, Mochida, and Yamamoto as applied in claim 3 above and further in view of Motomura.

While Mochida and Yamamoto provide motivation to include a belt edge cushion rubber in the tire of Yamaguchi, the reference is completely silent with respect to the loss factor or tangent delta of the cushion rubber. Motomura, on the other hand, recognizes the known use of rubber compositions having a tan delta between 0.07 and 0.15 for similar belt edge cushion rubber layers (Column 3, Lines 45-55)- such a rubber is recognized as providing suitable reinforcement without generating/accumulating heat. One of ordinary skill in the art at the time of the invention would have found it obvious to use a rubber having a tangent delta below 0.15 to form the cushion rubber of

Yamaguchi in view of Kojima, Mochida, and Yamamoto for the reasons detailed above. Lastly, while the tangent delta is recorded at room temperature, those compositions having a tangent delta at the lower end of the range would not be expected to more than double with an increase of 40 degrees Celsius and applicant has not provided a conclusive showing of unexpected results to establish a criticality for the claimed range.

12. Claims 1, 6, 8-10, 14, and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Serra (WO 2002/26878, of record) and further in view of Yamaguchi, Mama, and Kojima.

As best depicted in Figure 1, Serra is directed to a pneumatic tire construction comprising a pair of belt plies 106a, 106b, and under tread rubber layer 111, a cap tread rubber layer 111, and a wing chip rubber layer 110. It is further noted Serra suggests the inclusion of a belt cover ply 106c.

While the belt cover ply of Serra is depicted as having an axial extent approximately equal to the width of the underlying belt structure, the reference fails to place a criticality on the axial extent of the belt cover ply (layer described as being optional). It is well known to arrange the belt cover ply such that it extends beyond the ends of the underlying belt structure in order to ensure complete protection of the underlying belt structure, as shown for example by Yamaguchi and Mama. In particular, the belt cover ply of Mama is described as extending beyond the belt ends by a distance between 15 and 40 mm. It is further noted that Mama suggests that such a construction (for the belt ply) reduces road noise, which would be desirable in all tire constructions. It is emphasized that Serra places no criticality on the axial extent of the

belt cover ply and applicant has not provided a conclusive showing of unexpected results.

Also, in such an instance, the ends of the belt cover ply and the underlying belt structure are not separated by a substantial radial distance and one of ordinary skill in the art at the time of the invention would have expected the tire of Serra to satisfy the claimed range, it being noted that the claimed quantitative relationship is a function of the tire section height, which varies between types of tires (heavy-load tires and agricultural tires have larger section heights)- this suggests that the claimed quantitative relationship is even more likely to be satisfied in the tire of Serra.

Lastly, with respect to the independent claim, Serra is completely silent with respect to the coating rubber of the belt cover ply. Kojima, on the other hand, suggests the use of a coating rubber for belt plies having a loss factor or tangent delta greater than 0 and less than 0.10 in order to eliminate the occurrence of fatigue and deterioration commonly experienced during running (Abstract). In this instance, a fair reading of Kojima suggests that the coating rubber is broadly applicable for all belt plies since the disclosed benefits are equally applicable to the general class of belt plies (working plies and protective plies). Thus, one of ordinary skill in the art at the time of the invention would have found it obvious to use a coating rubber having a loss factor less than 0.1 in the belt cover ply of Serra.

With respect to claims 8 and 16, Serra depicts the radially inner end of the wing chip rubber in the shoulder portion of the tire. Given such a general disclosure, one of ordinary skill in the art at the time of the invention would have readily appreciated a wide

variety of embodiments, including those in which respective components are separated by at least 10 mm. It is emphasized that Serra fails to place a criticality on the axial separation and the figures of Serra generally depict a separation that would be expected to be on the order of 10 mm. Lastly, applicant has not provided a conclusive showing of unexpected results to establish a criticality for the claimed separation.

Regarding claims 9, 19, and 20, one of ordinary skill in art at the time of the invention would have found it obvious to form the belt cover ply of Serra with a main center section and a pair of extension sections in view of Yamaguchi. In particular, Yamaguchi suggests a design having such sections in order to enhance high speed durability. It is emphasized that the claims as currently drafted fail to define over the design of Yamaguchi as the radially inner portions of the extension sections are inward of the respective belt plies. Additionally, the side belt cover plies disclosed by Yamaguchi include "axially inner portions" that are arranged in region radially inward of the outermost belt ply (different than requiring the axially inner end of respective belt cover plies be arranged radially inward of at least one belt ply). It is emphasized that any portion of the belt cover ply that lays radially inward of the outermost belt ply and axially inward of the axially outer end of the belt cover ply can be viewed as "axially inner portions"

As to claims 17 and 18, Serra is broadly directed to tires for pneumatic vehicles and such would include passenger car tires.

13. Claims 7 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Serra, Yamaguchi, Mama, and Kojima as applied in claims 6 and 14 respectively and further in view of Kan (US 4,444,236, of record) and Haneda (JP 07257116, of record).

As detailed above, Serra discloses a pneumatic tire construction comprising a cap tread layer and a base tread layer (undertread). While the reference fails to expressly disclose the respective loss factors (tangent delta) for each layer, Kan teaches a similar cap/base assembly and suggests a loss factor relationship in accordance to the claimed invention. In particular, such a construction provides a tire that is balanced in rolling resistance and wet grip (Column 1, Lines 1-20 and Tables 1-3). It is emphasized that each of the inventive cap/base assemblies listed in table 3 satisfies the quantitative relationship of the claimed invention. It is further noted that while the tangent delta is recorded at 30 degrees Celsius, the listed compositions would not be expected to more than double with an increase of 30 degrees Celsius and applicant has not provided a conclusive showing of unexpected results to establish a criticality for the claimed range. Haneda has been further provided to evidence the use of rubber compositions (for wing chip rubber layers) having a relatively low tangent delta in order to reduce the rolling resistance. As such, one of ordinary skill in the art at the time of the invention would have found it obvious to form the wing chip rubber layer and the tread base layer in accordance to the claimed invention.

Response to Arguments

14. Applicant's arguments filed August 17, 2009 have been fully considered but they are not persuasive.

Applicant argues that (a) Mama depicts terminal edges of the cover layers as being separated from terminal edges of the belt layer by a relatively large vertical distance and (b) Mama is silent with respect to the tire section height.

It is initially noted that it is unclear if the figures are "working drawings". Second, it is the examiner's position that the respective terminal edges are actually depicted as being only slightly separated in the radial direction (depicted as being smaller than extension b in Figure 1). One of ordinary skill in the art at the time of the invention would have found it obvious to include a radial separation in accordance to the claimed invention in view of the general disclosure of Mama and applicant has not provided a conclusive showing of unexpected results to establish a criticality for the claimed separation. While applicant points to Table 1, Inventive Example 1 only demonstrates an extremely small increase in rolling resistance and tire uniformity (less than 1% and 2% respectively) and such improvements are not seen to constitute a conclusive showing of unexpected results.

Additionally, Mama is generally directed to a radial tire construction- one of ordinary skill in the art at the time of the invention would have readily appreciated the manufacture of a wide variety of tires, including those having relatively large tire section heights. Given that the dimension of the cover plies is fixed, it is evident that the claimed ratio would decrease with increasing tire size, further suggesting that one having ordinary skill in the art would have found it obvious to form a tire in accordance to the claimed invention (argument is not associated with rejection of claim 17).

With respect to claims 9, 10, and 18-20, the arguments are not commensurate with the amended claim language . As detailed in the rejection above, any portion of the belt cover ply that lays radially inward of the outermost belt ply and axially inward of the axially outer end of the belt cover ply can be viewed as "axially inner portions".

Regarding Yamaguchi, applicant argues that the reference fails to suggest the claimed ratio. It is agreed that the reference fails to expressly disclose the claimed ratio. However, a fair reading of the reference generally suggests that the respective terminal edges are extremely close to one another (Figure 1). It is emphasized that the respective terminal edges are essentially depicted as being arranged at the same radial position and applicant has not provided a conclusive showing of unexpected results to establish a criticality for the claimed ration (Table 1 has been addressed above).

With respect to Kojima, it is agreed that the reference fails to suggest the claimed ratio. The reference, however, is simply provided to evidence the known use of coating rubbers having a low tangent delta in tire belt layers.

As to Serra, applicant similarly argues that the reference fails to disclose or suggest the claimed ratio. The examiner agrees that Serra fails to expressly teach the claimed ratio. However, as detailed above, Mama and Yamaguchi suggest that including extension portions is known in similar belt cover layers and more particularly, it is known to form a structure in which respective terminal edges are extremely close to one another in the radial direction.

Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Heidenreich (DE 19649507) teaches a plurality of tire constructions in which belt cover plies are provided radially outward and between working belt plies.

16. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Justin R. Fischer** whose telephone number is **(571) 272-1215**. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Justin Fischer
/Justin R Fischer/
Primary Examiner, Art Unit 1791
November 24, 2009